

Patent claims

1. A dispersion powder composition based on water-insoluble polymers and comprising, based on the total weight of the polymer, an amount in the range from
5 0.1 to 30% by weight of at least one carboxylic ester whose acid component has at least 6 carbon atoms and whose alcohol component is a polyhydroxy compound.
2. The dispersion powder composition as claimed in claim 1, wherein the
10 alcohol component has been selected from the group of glycerol, diglycerol, and triglycerol.
3. The dispersion powder composition as claimed in claim 1, which comprises at least one water-insoluble polymer selected from the group consisting of
15 the vinyl ester homo- and copolymers, vinyl ester-ethylene homo- and copolymers, vinyl ester-(meth)acrylate homo- and copolymers, vinyl ester-(meth)acrylate-ethylene homo- and copolymers, the (meth)acrylate homo- and copolymers, styrene-(meth)acrylate homo- and copolymers,
20 homo- and copolymers of fumaric or maleic esters, the homo- and copolymers of vinyl halides, vinylaromatics, dienes, olefins, and of the polyurethanes, polyesters, polyethers, polyamides, melamine-formaldehyde resins, phenol-formaldehyde resins, or of their oligomeric precursors.
25
4. The dispersion powder composition as claimed in claim 1, wherein the polymer is stabilized by means of protective colloids and/or emulsifiers.
5. The dispersion powder composition as claimed in claim 1, wherein the
30 polymer comprises, based on the total weight of the polymer, from 3 to 35% of a protective colloid.

6. The dispersion powder composition as claimed in claim 1, wherein the polymer comprises, based on the total weight of the polymer, from 0 to 30% by weight of anticaking agents.
- 5 7. The dispersion powder composition as claimed in claim 1, which comprises
- a) at least one water-insoluble polymer selected from the group consisting of the vinyl ester homo- and copolymers, vinyl ester-ethylene homo- and copolymers, vinyl chloride homo- and copolymers, (meth)acrylate homo- and copolymers, styrene-(meth)acrylate homo- and copolymers;
- 10 b) from 3 to 35% by weight, based on the total weight of the polymer, of a protective colloid;
- c) from 0.1 to 30% by weight, based on the total weight of the polymer, of at least one carboxylic ester whose acid component has at least 6 carbon atoms and whose alcohol component is glycerol, diglycerol, or triglycerol,
- 15 and which has between 0 and 80 polyethylene oxide units between acid component and alcohol component;
- d) from 0 to 30% by weight, based on the total weight of the polymer, of anticaking agents.
- 20 8. The dispersion powder composition as claimed in claim 1, wherein polyvinyl alcohol with a degree of polymerization of from 200 to 3 500 and a degree of hydrolysis of from 80 to 98 mol% is used as protective colloid for preparing the polymer.
- 25 9. The dispersion powder composition as claimed in claim 1, wherein the acid component contains halogens, hydroxyl groups, ether groups, thioether groups, ester groups, amide groups, carboxy groups, sulfonic acid groups, carboxylic anhydride groups, and/or carbonyl groups.
- 30 10. The dispersion powder composition as claimed in claim 1, wherein the carboxylic esters used comprise the corresponding mono-, di-, or triesters of glycerol, of diglycerol, or of triglycerol.

11. The dispersion powder composition as claimed in claim 1, wherein aluminum silicate, calcium carbonate or magnesium carbonate or mixtures of these, silicas, or combinations of dolomite and, respectively, calcite and talc are used as anticaking agents.

5

12. The dispersion powder composition as claimed in claim 1, wherein the carboxylic acid has been applied to a pulverulent carrier material, and the carrier material comprises an amount in the range of from 10 to 160% by weight of carboxylic ester, based on the total weight of the carrier material.

10

13. The dispersion powder composition as claimed in claim 12, wherein the pulverulent carrier material is an anticaking agent as claimed in claim 11.

14. The dispersion powder composition as claimed in claim 12, wherein the carrier material is fumed silica or precipitated silica with a BET surface area of at least 50 m²/g.

15. A process for preparing a dispersion powder composition as claimed in claim 1, in which polymer a), protective colloid b), and carboxylic esters c), and, if desired, further protective colloid b) are mixed to prepare a dispersion and this is then, where appropriate, dried with simultaneous admixing of the anticaking agent d).

16. The process as claimed in claim 15, wherein the carboxylic ester is added to the initial charge of the polymer a) needed for the preparation process.

17. The process as claimed in claim 16, wherein the carboxylic ester is applied to a carrier material and this coated material is added during and/or after the drying of the dispersion powder composition.

30

18. The process as claimed in claim 17, wherein the coated material is added after the drying of the dispersion powder composition.

19. The process as claimed in 15, wherein drying takes place by spray drying in a drying tower.

20. A process for modifying wallpaper pastes, mortar, or concrete by addition of
5 a dispersion powder composition as claimed in claim 1.

21. A process for hydrophobicizing mortar or concrete by addition of a
dispersion powder composition based on water-insoluble polymers which, based
on the total weight of the polymer, comprises an amount in the range from 0.1 to
10 30% by weight of at least one carboxylic ester whose acid component has at least
6 carbon atoms and whose alcohol component is glycerol, diglycerol, or triglycerol.